ATTTATTTATTTAATCATCTCATATGTGTCTATGTGTTCTGTTTAACCTCAGATCCTTCCACACA
AAGAAAACATACTGCAGAAACAATCGTGATTTCTGTAAGTCAACGGCAAACACCACCCCCGTCTT
AACGGCCAGCAGGAAAAAATGAAGCATATTATCAATTCGTATGAACACACCAATGACACCGCAAG
AAATAACTCCGATTGTCCTGATGTAGTTTTGCCAGAAGAGATATTTTTCACAATCTCTGTCATTG
GCATATTGGAGAACTTGATTGTCCTCCTGGCTGTGATCAAAAATAAAAATCTCCAGTCCCCCATG
TATTTTTTCATCTGCAGTTTGGCCATTTCTGACATGTTGGGCAGTCTGTATAAGATCTTGGAAAA
CATCCTGATCATGTTCAGAAACATGGGTTATCTTAAGCCTCGTGGCAGTTTTGAAAGCACAGCAG
ATGACATCATTGACTGCATGTTCATCCTCTCTTTGCTGGGCTCTATCTTCAGCCTGTCTGTCATT
GCAGCTGACCGTTACATCACCATCTTCCATGCCCTGCAATACCATAGCATTGTGACCATGCGCCG
CACCATCATCACCCTAACAATTATCTGGATGTTCTGCACAGGGAGCGGCATCACCATGGTGATCT
TCTCCCACCACATCCCCACAGTGCTCACCTTCACATCGCTGTTCCCTTTGATGCTGGTTTTTATC
CTGTGTCTCTACATCCACATGTTCTTACTTGCCCGCTCCCATGCTAGGAAGATCTCTACCCTTCC
TAGAACCAACATGAAGGGTGCCATGACACTAACCATCCTTCTTGGAGTCTTCATCTTCTGTTGGG
CCCCCTTTGTGCTCCATGTTCTCTTAATGACCTTCTGCCCAAATAACCCTTACTGTGTTTGCTAC
ATGTCTCTCTTCCAGGTCAATGGCATGTTGATCATGTGCAATGCAGTTATTGACCCCTTTATATA
TGCCTTTCGGAGCCCAGAGCTCAGAGATGCATTCAAAAGGATGCTCTTCTGCAACCGGTATTAGT
AGAATTTTTGATCCCTGCTTTGAGTGTTGTAAAGGGACCAAATAACACATCAGTCTGACA (SEQ
ID NO:1)

MKHIINSYEHTNDTARNNSDCPDVVLPEEIFFTISVIGILENLIVLLAVIKNKNLQSPMYFFICS
LAISDMLGSLYKILENILIMFRNMGYLKPRGSFESTADDIIDCMFILSLLGSIFSLSVIAADRYI
TIFHALQYHSIVTMRRTIITLTIIWMFCTGSGITMVIFSHHIPTVLTFTSLFPLMLVFILCLYIH
MFLLARSHARKISTLPRTNMKGAMTLTILLGVFIFCWAPFVLHVLLMTFCPNNPYCVCYMSLFQV
NGMLIMCNAVIDPFIYAFRSPELRDAFKRMLFCNRY (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

ATTTATTTATTTAATCATCTCATATGTGTCTATGTGTTCTGTTTAACCTCAGATCCTTCC
ACACAAAGAAAACATACTGCAGAAACAATCGTGATTTCTGTAAGTCAACGGCAAACACCA
CCCCCGTCTTAACGGCCAGCAGGAAAAAATGAAGCATATTATCAATTCGTATGAACACAC
CAATGACACCGCAAGAAATAACTCCGATTGTCCTGATGTAGTTTTGCCAGAAGAGATATT
TTTCACAATCTCTGTCATTGGCATATTGGAGAACTTGATTGTCCTCCTGGCTGTGATCAA
AAATAAAAATCTCCAGTCCCCCATGTATTTTTTCATCTGCAGTTTGGCCATTTCTGACAT
GTTGGGCAGTCTGTATAAGATCTTGGAAAACATCCTGATCATGTTCAGAAACATGGGTTA
TCTTAAGCCTCGTGGCAGTTTTGAAAGCACAGCAGATGACATCATTGACTGCATGTTCAT
CCTCTCTTTGCTGGGCTCTATCTTCAGCCTGTCTGTCATTGCAGCTGACCGTTACATCAC
CATCTTCCATGCCCTGCAATACCATAGCATTGTGACCATGCGCCGCACCATCATCACCCT
AACAATTATCTGGATGTTCTGCACAGGGAGCGGCATCACCATGGTGATCTTCTCCCACCA
CATCCCCACAGTGCTCACCTTCACATCGCTGTTCCCTTTGATGCTGGTTTTTATCCTGTG
TCTCTACATCCACATGTTCTTACTTGCCCGCTCCCATGCTAGGAAGATCTCTACCCTTCC
TAGAACCAACATGAAG**GGTGCCATGACACTAACCATCCTTCTTGGAGTCTTCATCTTCTG**
TTGGGCCCCCTTTGTGCTCCATGTTCTCTTAATGACCTTCTGCCCAAATAACCCTTACTG
TGTTTGCTACATGTCTCTCTTCCAGGTCAATGGCATGTTGATCATGTGCAATGCAGTTAT
TGACCCCTTTATATATGCCTTTCGGAGCCCAGAGCTCAGAGATGCATTCAAAAGGATGCT
CTTCTGCAACCGGTATTAGTAGAATTTTTGATCCCTGCTTTGAGTGTTGTAAAGGGACCA
AATAACACATCAGTCTGACA (SEQ ID NO:1)

FIGURE 2A

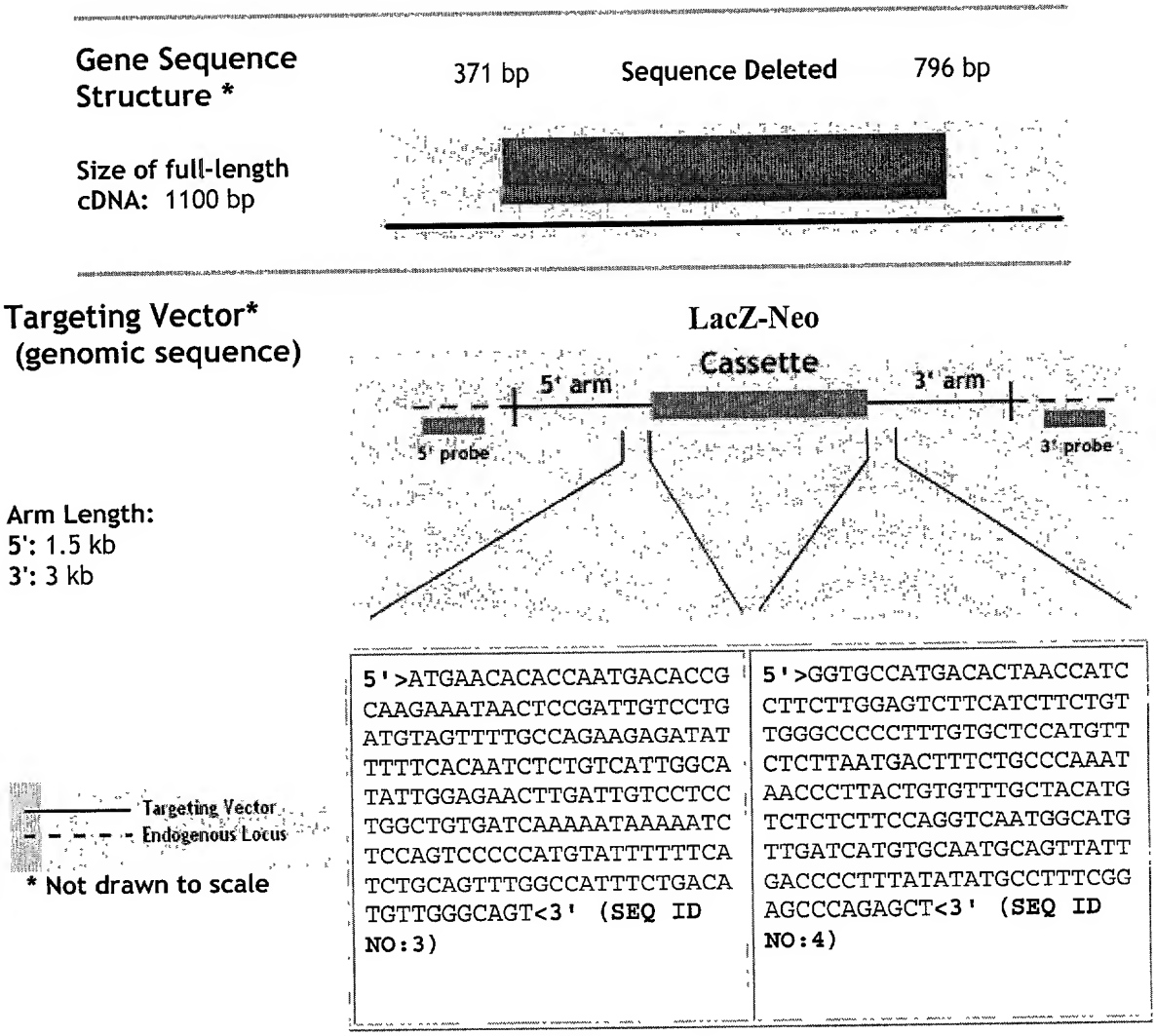

FIGURE 2B

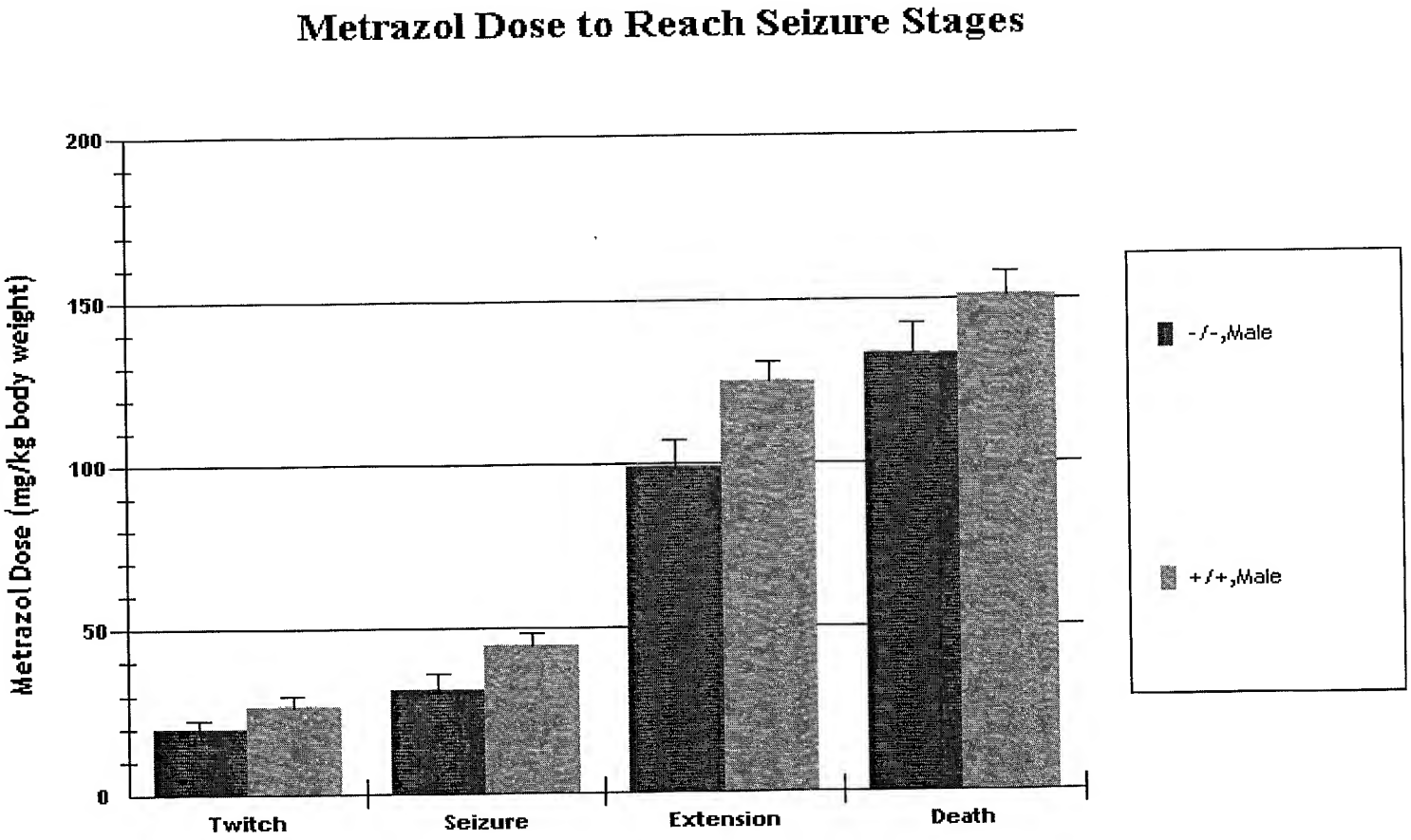
Metrazol Dose to Reach Seizure Stages
Metrazol Dose (mg/kg body weight)
200
150
100
50
0
Twitch
Seizure
Extension
Death
-/-,Male
+/+,Male

FIGURE 3

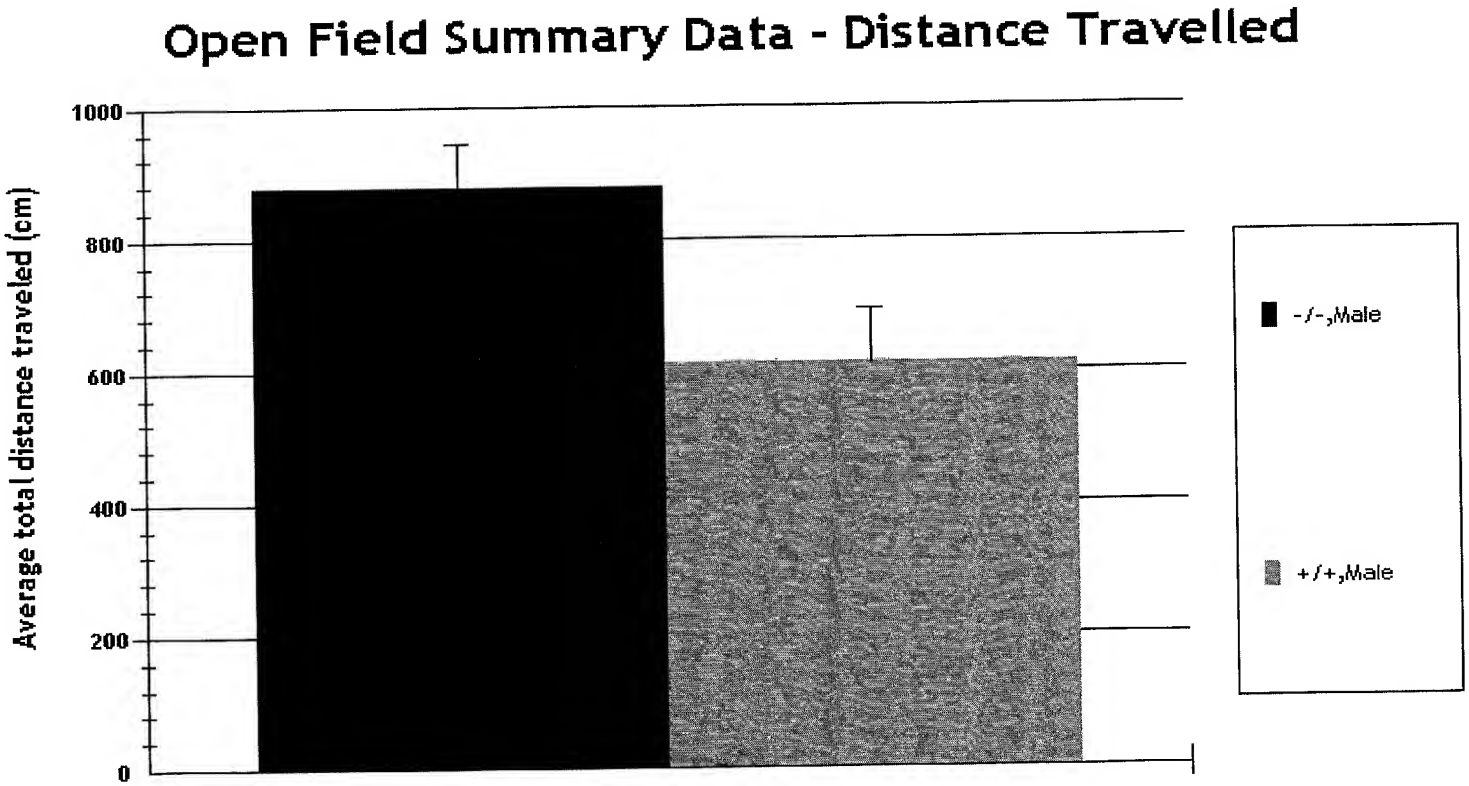
Open Field Summary Data - Distance Travelled
Average total distance traveled (cm)
1000
800
600
400
200
0
-/-,Male
+/+,Male

FIGURE 4

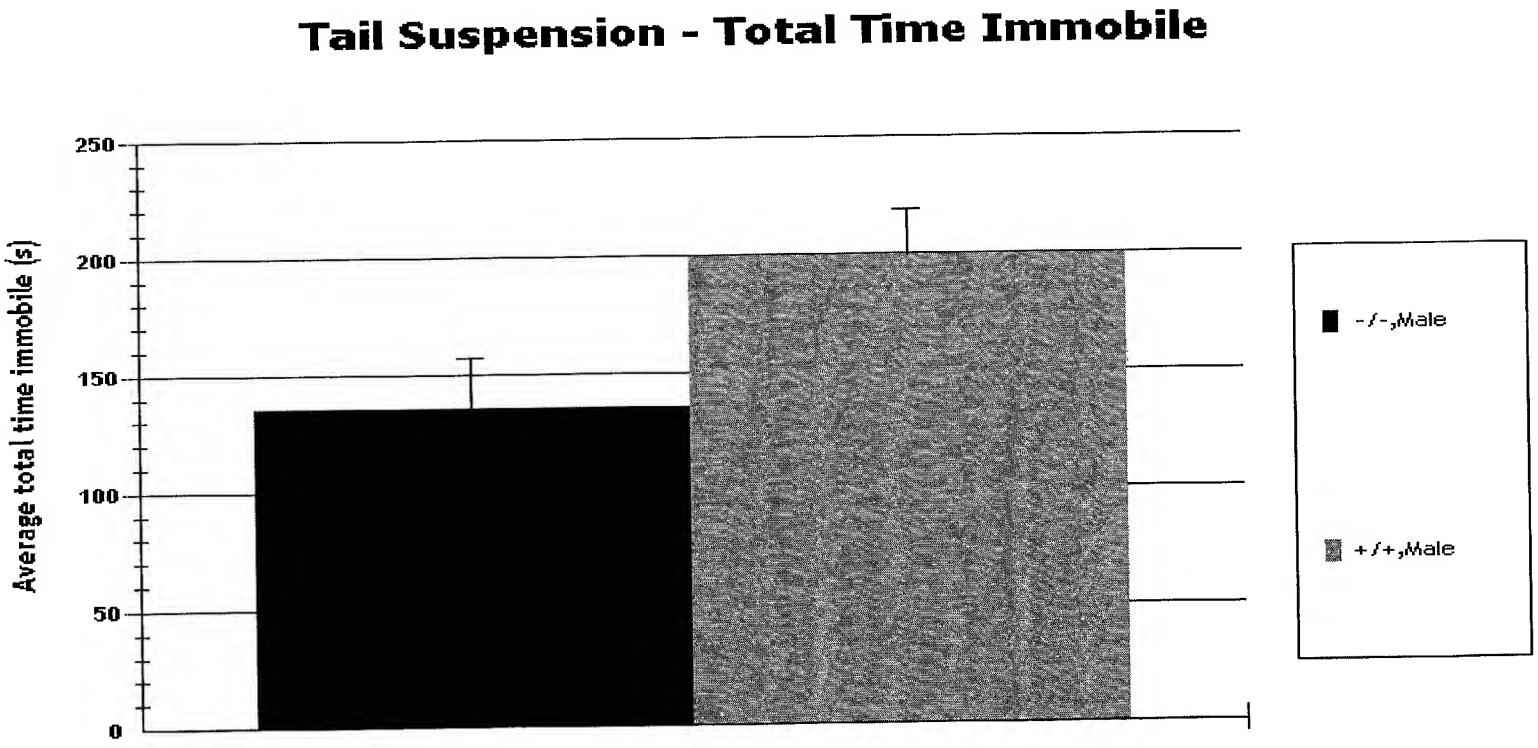
Tail Suspension - Total Time Immobile
Average total time immobile (s)
250
200
150
100
50
0
-/-,Male
+/+,Male

FIGURE 5